

Problem statement-3 Hibernate

Html file

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<a href="prod">List</a>
</body>
</html>
```

Class file

package com;

```
import org.hibernate.SessionFactory;
import org.hibernate.boot.Metadata;
import org.hibernate.boot.MetadataSources;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
```

public class HibernateUtil {

```
    private static final SessionFactory sessionFactory;

    static {
        try {
            StandardServiceRegistry standardRegistry = new
StandardServiceRegistryBuilder().configure("hibernate.cfg.xml").build();
            Metadata metaData = new
MetadataSources(standardRegistry).getMetadataBuilder().build();
            sessionFactory =
metaData.getSessionFactoryBuilder().build();
        } catch (Throwable th) {
            throw new ExceptionInInitializerError(th);
        }
    }
}
```

```

    public static SessionFactory getSessionFactory() {
        return sessionFactory;
    }
}

```

Annotations class file

```

package com;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.Table;
@Entity
@Table(name= "eproduct")
public class EProduct {

    @Column(name = "ID")
    private long ID;

    @Column(name = "name")
    private String name;

    public long getID() {return this.ID; }
    public String getName() { return this.name;}

    public void setID(long id) { this.ID = id;}
    public void setName(String name) { this.name = name;}
}

```

Servlet listproducts

```

package com;
import java.io.IOException;
import java.io.PrintWriter;
import java.util.List;
import javax.xml.bind.*;
import java.io.Serializable;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
public class Listproducts extends HttpServlet {
    private static final long serialVersionUID = 1L;
    public Listproducts() {

```

```

        super();
    }

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
        try {
            SessionFactory factory = HibernateUtil.getSessionFactory();

            Session session = factory.openSession();
            // using HQL
            List<EProduct> list = session.createQuery("select ID,name from
EProduct").list();
            session.close();

            PrintWriter out = response.getWriter();
            out.println("<html><body>");
            out.println("<b>Product Listing</b><br>");
            for(EProduct p: list) {
                out.println("ID: " + String.valueOf(p.getID()) + ", Name:
" + p.getName() + "<br>");
            }

            out.println("</body></html>");

        } catch (Exception ex) {
            throw ex;
        }

    }

    protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
    }
}

```

[List](#)

Product Listing